BioMax Environmental

Environmental Consulting and Industrial Hygiene Services

December 9th, 2008

Mr. Doug Button
Deputy Director
Real Estate Services Division
707 Third Street - 8th Floor
West Sacramento, CA 95605

Department of General Services
Board of Equalization Building, 450 N. Street
22nd Floor Post Mitigation Final Assessment
Sacramento, California

Mr. Button.

BioMax Environmental, LLC (BioMax) is pleased to provide The Department of General Services (DGS) with this letter summary report detailing BioMax's findings and recommendations pertaining to our post mitigation microbial inspection and sampling final assessment services provided within the 22nd floor of the Board of Equalization (BOE) building located at 450 N Street, Sacramento, California. BioMax understands that these post mitigation microbial inspection and sampling assessment services were contracted with BioMax, at your request, in an effort to review and verify the successful completion of all floor-wide microbial mitigative efforts performed by your restoration contractor, JLS Environmental, Inc., (JLS) within the previously mitigated areas of the 22nd floor of the subject building.

Therefore, these post mitigation clearance assessment services are intended to assess the current 22nd floor site conditions wherein mitigative activities have been completed by JLS prior to subsequent Heating Ventilation and Air conditioning (HVAC) system activation. Procedural recommendations pertaining to BioMax's previous inspection and assessment activities associated with the 22nd floor interior areas have been summarized within our previously developed procedural assessment reports including those entitled:

- Mitigative and Clean Up Procedures for Interior Electrical/Data Rooms, Janitorial Rooms, Supply Rooms, Copy Rooms, Storage Rooms, and Rest Room Areas, dated May 7th, 2008.
- Microbial Assessment of 22nd Floor Fountain Chase Cavity, dated August 26th, 2008
- Mitigation Procedures for Floor 23 and 22 Janitor Room Impacted Areas, dated August 25th, 2008.

- 22nd Floor Procedures for Destructive Inspection and Microbial Mitigation, dated May 9th, 2008.
- Post Mitigation Clearance Assessment Protocols, dated February 15th, 2008.
- 22nd Floor Fire Proofing Removal Procedures, dated October 7th, 2008.
- Microbial Assessment of Break Room Areas ("Building Wide"), dated July 11th, 2008

Additional historical reports and assessment data may also be obtained for further historical background and technical reference, as necessary.

Hence, these floor-wide post mitigation inspection microbial clearance assessment services, thereby, are intended to provide a professional evaluation verifying the physical conditions wherein the successful completion of all microbial removal and decontamination activities have occurred within each of the identified affected areas. Following the completion of all floor-wide mitigative activities performed by your mitigation contractor, JLS, Mr. Michael A. Polkabla, CIH, REA of BioMax performed a detailed post mitigation site inspection and airborne sampling assessment throughout the 22nd floor interior areas as noted in this report. BioMax's findings and conclusions pertaining to these post mitigation sampling assessment activities are, therefore, summarized herein.

STEOBSERVATIONS

A floor-wide site inspection and post mitigation assessment sampling activities were performed by BioMax on November 10th, 2008. Site access onto the noted 22nd floor was facilitated by site contractor (JLS) and DGS personnel. On this date, Mr. Michael A. Polkabla, CIH, REA of BioMax performed a detailed visual site inspection throughout the interior floor-wide areas of the noted 22nd floor. Following the performance of a detailed visual assessment (indicating acceptable post mitigation conditions), BioMax collected a series of airborne SporeTrap confirmation samples within and surrounding each of these interior areas as noted below.

On-site inspection and clearance sampling assessment activities were performed by Mr. Michael A. Polkabla, CIH, REA, of BioMax in accordance with currently recognized microbial assessment and sampling guideline procedures. Mr. Polkabla has been certified in the Comprehensive Practice of Industrial Hygiene by the American Board of Industrial Hygiene and holds the right to the designation "Certified Industrial Hygienist" (CIH) under certification number CP 7104. Mr. Polkabla is also certified by the California Environmental Protection Agency (Cal/EPA) as a Class I Registered Environmental Assessor (REA) under Cal/EPA certification number 05011. Previously established and referenced clearance criteria developed for these activities has been formalized in BioMax's Post Mitigation Clearance Assessment Protocols dated February 15th, 2008. Such protocols have been reviewed and approved by BOE's environmental consultant, Hygientech International, Inc. (HTI) prior to implementation. A summary of significant notations and observations gathered during BioMax's site inspection and post mitigation clearance assessment activities within the subject containment areas are compiled as follows:

- 1. At the time of our site inspection and post mitigation sampling assessment performed on November 10th, 2008 ambient outdoor conditions both prior to and following our interior assessment activities consisted of clear and mild conditions with an outdoor temperatures range between 53 and 54 degrees F and relative humidity noted at 33 to 36 %. Predominant winds were noted at approximately 0-5 knots from the northwesterly direction at the time of our assessment. Interior environmental conditions within the sampled interior areas consisted of a temperature range between 69 to 71 degrees F with relative humidity range of 28 to 29 percent.
- 2. At the time of this post mitigation final assessment, each of the observed interior areas whereby investigative and microbial mitigative activities had previously been performed had been completed and rendered "acceptable for reconstruction" as per BioMax's referenced clearance summary report protocols. During such prior mitigative activities, BioMax routinely performed regular and periodic inspections and review of records/conditions within and surrounding each of the noted previous containment areas during mitigative activities. A review of such information has indicated a preponderance of evidence verifying that the current barrier systems had provided appropriate protective controls for the duration and performance of the noted mitigative activities.
- 3. Prior to these assessment activities, BioMax had performed regular monitoring and inspection during the floor-wide fire-proofing removal activities performed within the 22nd floor ceiling perimeter plenum area by the site contractor JLS. Such activities had been performed under the protocols developed within BioMax's previously referenced summary report entitled 22nd Floor Fire Proofing Removal Procedures, dated October 7th, 2008. These post mitigation assessment activities shortly follow (by design) the successful completion of this contractor activity.
- 4. Following our floor-wide inspection BioMax collected series airborne samples within representative interior areas and offices noted below for subsequent comparative analysis. Such samples were collected within and surrounding each of the previous interior containment systems in an effort to identify and quantify the current airborne microbial conditions within each of the sampled areas following the completion of all prescribed mitigative efforts and associated final cleaning activities performed by JLS. Findings associated with these verification sampling activities are noted below.
- 5. BioMax also collected a series of digital images during these post mitigative inspection and sampling assessment activities to document the conditions and significant site observations gathered at this time. Such images are provided as an attachment to this summary report for further reference, as necessary.

On-site inspection and sampling assessment activities were conducted by Mr. Michael A. Polkabla, CIH, REA, of BioMax Environmental on November 10th, 2008. All sampling

equipment, supplies, calibration materials, and collection media were provided and maintained by BioMax as part of the performance of this scope of work. Sample collection procedures and methods were performed using standard industrial hygiene sampling methods following techniques prescribed by the contracted analytical laboratory.

Spore Trap Airborne Microbial and Particulate Sampling:

The collection of airborne Spore Trap microbial samples was achieved using Zefon Air-O-Cell sampling cassette collection devices placed in each of the areas identified in the tables below. Airborne Spore Trap samples were collected within each of the noted area locations at a height of approximately four feet above ground level using a tripod mounted Quick Take 15 air sampling pump manufactured by SKC. Samples were collected at a calibrated flow rate of 15 liters per minute for a total of five minutes per sample. Resultant total sample volumes, therefore, corresponded to 75 liters collected for each collected sample. Calibration of the SKC air sampling pump was conducted prior to sampling using a field rotometer devise calibrated with a Bios Drycal primary standard flow meter. All spore trap air sampling and analytical procedures were performed in accordance with prescribed manufacturer guidelines as well as applicable professional certified industrial hygiene indoor air quality microbial investigation procedures and certified industrial hygiene practices.

Additional exterior ambient samples were also similarly collected and analyzed in an effort to identify and quantify representative background microbial taxa (types), rank order, and corresponding airborne spore levels present within the ambient environment at the time of this assessment for comparative purposes. Sampling collection activities performed during this study included the collection of identifiable airborne microbial contaminants within the representative area locations noted in Table 1:

Table 1. Airborne Spore Trap Sampling Locations:

Air Sample Number	
14354839	Ambient Pre Sample 3 rd Floor Garage Structure
14354903	2232 Area North Side
14354890	Floor 22 NE Corner
14354949	Floor 22 (East) Room 2234
14354878	Floor 22 SE Corner
14354827	Floor 22 South Side
14354880	Floor 22 SW Area (near 2220)

Air Sample Nucleer	Spore Trap An Sampling Tockwon
14354825	Floor 22 NW Corner (near 2225)
14354917	Floor 22 NW Corner (near 2232)
14354815	Ambient-post Main Entry

At the conclusion of sampling activities, preparation and shipping of the collected samples were accomplished in accordance with standard industrial hygiene chain of custody (COC) documentation procedures and quality assurance/quality control practices. Once collected, labeled, and recorded, all samples were double scaled within airtight plastic Ziploc shipping containers and transported via Federal Express Priority Mail to Environmental Microbial Laboratories (EMLabs) in San Bruno, California. EMLabs holds current applicable analytical accreditation and specializes in microbial analytical procedures. Sampling and chain of custody records are provided as an attachment to this letter report for further reference.

ANALYTICAL FINDINGS AND CONCLUSIONS

Airborne Spore Trap Findings:

Laboratory analytical methods for the identification and enumeration of microbial (mold) taxa and particulate contaminants were conducted in accordance with prescribed analytical procedures and quality control/assurance measures. Original laboratory results including the enumeration of recognizable microbial spore and particulate types are also attached to this letter report for further reference and detail. A summary of airborne Spore Trap microbial (mold) and particulate findings pertaining to each of the subject areas are presented in Table 2 below:

Table 2. Airborne Microbial and Particulate Findings - Break Rooms 2202, 2223, 2224.

Tecation Designation in the control of the control	Total Mole: Spores (Cts/m3)	Escretoma Debne (scale of 1-2)	Skin Gen Fragments (seale 61,1-4)	Evissalis Fagmenis (units/m3)
Ambient Pre Sample 3 rd Floor Garage Structure	18,000	3+	<1+	<13
2232 Area North Side	53	1+	1+	<13
Floor 22 NE Corner	<13	1+	1+	<13

The analytical findings presented in Table 2 above clearly indicate the presence of significantly lower concentrations of total microbial (mold) spores measured within each of the interior samples when compared to the levels currently measured from the corresponding ambient outside environment. Analytical findings also indicate similar fungal taxa distribution (mold types) and rank order (predominant taxa) of molds identified within the interior areas when compared to the current outside ambient ranges. Analysis of fungal hyphal fragments (vegetative fungal growth structures) also indicated fewer structures within the interior areas when compared to the corresponding levels found within the ambient outside environmental samples. Particularly worthy of note, was the absence of elevated levels of hydrophilic (moisture loving) mold taxa following the completion of all mitigative activities within each of the noted interior areas.

Although there are currently no regulatory standards or limits pertaining to allowable airborne fungal concentrations (for any mold taxa) present in indoor environments, there is a general consensus among indoor air quality experts that airborne microbial contamination found within "typical healthy" living and working spaces are generally similar in kind and present at levels which are below those found in the corresponding native outside environment. BioMax believes that the absence of elevated hyphal structures with relatively fewer total airborne mold levels with typical taxa and rank order distribution following all floor-wide mitigative activities are consistent with these generally acceptable interior working space conditions. BioMax, therefore, believes that these findings provide reasonable evidence indicating that current microbial

removal and floor-wide clean-up measures have successfully removed and contained mold contamination within the above noted interior areas and materials to normal representative levels.

Based on these findings, BioMax believes that the current physical site conditions present within the 22nd floor areas may be considered acceptable in meeting both the visual and analytical clearance criteria established for these activities. As such, BioMax's review and interpretation of the collected analytical data associated with each of the previously noted containment areas has been shown to meet the building specific clearance criteria established for these activities. Such clearance criteria has been presented in BioMax's Post Mitigation Clearance Assessment Protocols dated February 15th, 2008, and has been reviewed and approved by BOE's environmental consultant, HTI. Therefore, BioMax believes that the verified achievement of such criteria supports BioMax's determination and conclusion that the 22nd floor may be considered acceptable for reconstruction at this time.

Airborne Particulate Findings:

Analytical particulate findings also sampled and analyzed as part of this assessment identified, what BioMax believes to be, "unremarkable" levels present within the collected air samples. Such findings within the 22nd floor areas also provide reasonable evidence indicating that current particulate clean-up and mitigative control measures have successfully controlled and contained particulate debris within the identified containment areas to acceptable post mitigation clean-up levels. BioMax, therefore, believes that these findings provide reasonable evidence indicating that current particulate removal and floor-wide clean-up measures have successfully removed and contained particulate debris within the above noted interior areas to normal representative levels.

RECOMMENDATIONS

Based on BioMax's post mitigation assessment findings and conclusions presented in this report, BioMax believes that the current airborne microbial and particulate levels sampled and analyzed within the 22nd Floor areas provides no significant evidence of elevated residual microbial and/or particulate contamination or airborne contamination/migration following the completion of the prescribed mitigative activities. BioMax also understands (through verbal notification) that parallel airborne assessment sampling performed by BOE's consultant, HTI, has also indicated acceptable microbial levels following their independent review of their collected parallel data. BioMax has been apprised that HTI expects to prepare a formal summary report of such parallel sampling findings for distribution to DGS shortly.

Hence, based on current site observations, field measurements, and review of all available findings at this time, BioMax believes that the 22nd Floor may be considered acceptable for general reconstruction and Heating Ventilation and Air Conditioning (HVAC) system reactivation following prudent reconstruction and building operations and maintenance (O&M) practices. Therefore, based on our professional review and interpretation of these current findings, BioMax provides the following recommendations for further consideration as discussed below:

maintenance practices.

- 1. The HVAC system isolated to the 22nd Floor may considered appropriate for reactivation utilizing 100 percent outside air ("Flush Mode") for a minimum of 48 hours prior to all final reconstruction, painting and carpet replacement activities. According to information provided to BioMax by DGS's Building Plant Maintenance (BPM) department, this HVAC mode constitutes standard building maintenance practice for interior reconstruction activities such as final painting, carpet replacement, etc. Such practices also dictate that the HVAC systems shall be established and maintained in "Flush" mode during all forthcoming final reconstruction activities prior to reoccupancy in accordance with standard building
- 2. During the performance of interior reconstruction activities, BioMax recommends that a qualified and experienced building inspector/contractor be utilized to verify the current compliance and functional integrity of all applicable building related structures including but not limited to plumbing, flashing, sealing, and drainage systems in accordance with current building codes and construction practices. All such systems, related inspection activities, and necessary corrective measures should be appropriately documented and functionally verified (function tested) prior to subsequent reconstruction and use. Certainly, the establishment and/or installation of any additional corrective measures or engineering controls (as identified through additional professional engineering consultation) should also be performed and implemented in accordance with applicable standards, building codes, and ordinances, as appropriate.
- 3. BioMax recommends that reconstruction of interior structural building materials within these areas should only be undertaken utilizing high quality, visibly clean (hand selected) construction grade building materials obtained from reputable commercial sources and which are verified through visual assessment to be free from elevated microbial contamination and/or elevated moisture content. Building materials, which are notably moist and/or visibly stained, should not be used during the reconstruction undertaken within the subject building. BioMax also recommends that any necessary controls and/or barriers should be established during any significant reconstruction activity so as to minimize the potential generation and transmission of associated nuisance construction dust and debris.
- 4. Reasonable additional assessment and investigative measures may also be required upon the identification of new or previously undiscovered materials and/or information related to moisture/microbial impacts within the noted structures and/or areas, as necessary. Any occurrence and/or re-occurrence of moisture intrusion following reconstruction within these areas should also be reviewed and addressed through additional professional consultation, as necessary. BioMax is certainly prepared to provide such professional consultation pertaining to these and any follow-up investigative measures upon request.

BioMax believes that the conclusions and recommendations provided above are consistent with standard industry microbial mitigative practices and prudent industrial hygiene hazard control and assessment methods. Please do not hesitate to contact me directly at (510) 724-3100 if you have any questions, comments, and/or require further assistance regarding this subject matter.

minul a fallet

Sincerely,

Michael A. Polkabla, CIH, REA Vice President, Principal



LIMITATIONS

Please note that the professional opinions presented in this review are intended for the sole use of the California State Department of General Services (DGS) and their designated beneficiaries. No other party should rely on the information contained herein without the prior written consent of BioMax Environmental and DGS. The professional opinions provided herein are based on BioMax's review and understanding of current site information and observed site conditions present within the areas inspected at the time these services were performed. Professional recommendations provided as part of this limited scope of work are intended for client consideration only and are not intended as a professional or regulatory mandate. Implementation of any of the above measures or recommendations does not, in any way, warrant the day-to-day health and/or safety of building occupants, residents, site workers, nor regulatory or building code compliance status during normal and changing environmental conditions. As microbial contamination, by nature, may change over time due to additional moisture intrusion, favorable growth conditions, and changing environments, the findings of this report are subject to change in the event that such conditions and/or environments arise. Also, the professional opinions expressed here are subject to revision in the event that new or previously undiscovered information is obtained or uncovered.

The information contained in this and any other applicable communication is for consideration purposes only. It is not intended, nor should it be construed as providing legal advice or warranting any level of safety or regulatory compliance. The sole purpose of such information is to assist with the anticipation, identification, evaluation and control of elevated and/or unnecessary health of physical hazards. Any action taken based on this information, including but not limited to opinions, suggestions and recommendations, whether implied or expressed, is the sole responsibility of the individual taking the action. The management of acceptable health and safety is criteria dependent and situation specific in nature, therefore requiring extensive knowledge and prudent value assessments so as to be properly determined and maintained.

These services were performed by BioMax in accordance with generally accepted professional industrial hygiene principals, practices, and standards of care. Under the existing Industrial Hygiene Definition and Registration Act, all reports, opinions or official documents prepared by a Certified Industrial Hygienist (CIH) constitutes an expression of professional opinion regarding those facts or findings which are subject of a certification and does not constitute a warranty or guarantee, either expressed or implied.

5107243145 01/05/2009 04:18 MUCKUBLAL SPURE TRAI AIR SAMPLING RECORD

BIOMAX ENVIRONMENTAL

Page of

BioMax Environmental 775 San Pablo Ave. Pinole, CA 94564

syww.biomaxenvironmental.com

Phone: (510) 724-3100 (510) 724-3145 Fax: biomaxenv@aol.com

Location: ZZ nd Floor ASSOS sment Part - FP Remark	
Date: ///0/08:	_

Client;	PGS
Project #:	1/100% - 01

Laboratory: EMLabs Req. Turn Around: Same

Analysis (circle). Fungal Particulate

	Parking the same and the same at the same at			ID / Quantif	eation.
	Sample Number	Time		Location/Desc.	Tellip / RH
A ~	14754837	0915	Ambient	Snot Floor Garage	53° /36°1.
13 ~	14354903	0940	2232 ARG	NSide Center	701/291
4-	14354890	0955	Floor 22 1	i	69/291
D -	14354949	1003	Floor 22 (8	ast) Rm 2234	70' / 29'1.
E-	1435 4878	1010	F/001 22	SE Corner	69-1281
-	14354827	1017	Floor 22	,	69/29 1
6-	14354880	1025	Floor 22	SW Arm (2220)	711/297
1+-	14354825	1035	Floor ZZ	UW Come was office	71 1297.
I-	14354917	1072	Fac 22	UN DOWA (402 4535)	69/297
1-	7 7 7 1 1 1 2	1055	Amont (5	rent Entry	54°/33%
	Total Sample Time (min):	Flow Rate (I/min):	Total Sample Volume (liters):	Ambient Conditions:	Comments:
ı	5	/5	75	No o-Small	

Please sign this form below acknowledging sample receipt and return executed form with laboratory reports. Fax, send, e-mail results to BioMax Environmental at (510) 724-3145 biomaxenv@aol.com Other Instructions:

							_
Relin	quis	hed	by:	Mil	AT /	E	-
	-						

Method of Transportation: FCAEX

Received By;

Received By: William

Time/Date Received: 11/1/08

Time/Date Sent:



Report for:

Mr. Michael Polkabla Biomax Environmental 775 San Pablo Ave. Pinole, CA 94564

Regarding:

Project: 111008-01 EML ID: 487305

Approved by:

Lab Manager

Dr. Kamashwaran Ramanathan

Dates of Analysis:

Spore trap analysis: 11-11-2008

Project SOPs: Spore trap analysis (I100000)

This coversheat is included with your report in order to comply with AIHA and ISO accreditation requirements,

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank corrections of results is not a standard practice. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

Client: Biomax Environmental C/O: Mr. Michael Polkabla

Re: 111008-01

Date of Sampling: 11-10-2008 Date of Receipt: 11-11-2008 Date of Report: 11-11-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	A-14354839: Ambient 3rd floor garage None 2151306-1		2232 aı	354903: rea N side enter		354890: NE comer	D-14354949: Floor 22 (cast) room 2234		
Comments (see below)			None 2151307-1		N	Vone	None		
Lab ID-Version‡:					2151308-1		2151309-1		
	raw ct.	spores/m3	raw ct.	spores/m3		spores/m3		spores/m3	
Alternaria									
Arthrinium	:::::::::::::::::::::::::::::::::::::::								
Ascospores*	42	2,200							
Aureobasidium									
Basidiospores*	226	12,000			:::::::::::::::::::::::::::::::::::::::				
Bipolaris/Drechslera group									
Botrytis			<u>:: :::: ;</u> : :						
Chaetomium									
Cladosporium	56	3,000							
Curvularia							::: :: ::		
Epicoccum	:: . : : :						. , , ; ; ; ; ; ; ; ; ;		
Fusarium					11 11 11 11 11 11 11 11 11 11 11 11 11				
Myrothecium									
Nigrospora	:		1 17 17 1 11		. 1 44 . 11		:.:::::::::::::::::::::::::::::::::::::		
Other colorless									
Penicillium/Aspergillus types†	12	640		53					
Pithomyces		¥ , ¥							
Rusts*				, , , , , , , , , , , , , , , , , , , ,					
Smuts*, Periconia, Myxomycetes*			ii nn yr 🗀						
Stachybotrys							1'		
Stemphylium									
Torula	.!! : ::: : ::								
Ulocladium					::				
Zygomycetes	: : : : : : : : : : : : : : : : : : : :								
Background debris (1-4+)++	3+		1+		1+		2+		
Hyphal fragments/m3	< 13		< 13		< 13		< 13		
Pollen/m3	< 13		< 13	<u> </u>	< 13		< 13		
Skin cells (1-4+)	<1+		1+		1+		1+		
Sample volume (liters)	75		75		75		75		
§ TOTAL SPORE/m3	7.5	18.000	ر ر	53	در	< 13	/3	< 13	

Comments:

^{*} Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi.

Most of these spore types are not seen with containe meanous (Anticisch sampling), anticing some may appear as not spore lating. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecillomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

may be undercounted.

††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

A "Version" greater than 1 indicates amended data.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.
TestAmerica Environmental Microbiology Laboratory, Inc.

1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

Client: Biomax Environmental C/O: Mr. Michael Polkabla

Re: 111008-01

Date of Sampling: 11-10-2008 Date of Receipt: 11-11-2008 Date of Report: 11-11-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	E-14354878: Floor 22 SE corner None 2151310-1		F-14354827: Floor 22 south side None 2151311-1		Floor 22	354880: 2 SW arca r 2220)	H-14354825: Floor 22 NW corner near office 222.		
Comments (see below)					Ŋ	lone	None		
Lab ID-Version‡:					2151312-1		2151313-1		
		spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	
Alternaria	## ## ## ## ## ## ## ## ## ## ## ## ##								
Arthrinium	.:: ::								
Ascospores*	1	53	<u>;::::::::::::::::::::::::::::::::::::</u>						
Aureobasidium			1 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1:			-			
Basidiospores*	::								
Bipolaris/Drechslera group									
Botrytis			. ijij				:		
Chaetomium					:: . ;; : :: ·; · ::		: : : :		
Cladosporium	1	53	::: ::: : : : : : : : : : : : : : : : :		· - 14	53			
Curvularia					: H				
Epicoccum									
Fusarium					:			,	
Myrothecium	: : : : : : :		:::::::::::::::::::::::::::::::::::::::						
Nigrospora	[· · · · · · · · · · · · · · · · · · ·								
Other colorless									
Penicillium/Aspergillus types†									
Pithomyces	:								
Rusts*					·		.:. : 1 1: :	13	
Smuts*, Periconia, Myxomycetes*	1	13							
Stachybotrys								•	
Stemphylium	30.131.11								
Torula						-	1 .: :		
Ulocladium								<u> </u>	
Zygomycetes									
Background debris (1-4+)††	2+		2+		3+		2+		
Hyphal fragments/m3	< 13		< 13		< 13		< 13		
Pollen/m3	< 13		< 13		< 13		< 13		
Skin cells (1-4+)	1+		1+		1+		1+		
Sample volume (liters)	75		75		75	-	75		
§ TOTAL SPORE/m3		120		< 13		53		13	

Comments:

^{*} Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi.

Most of the basidiospores are "mush contratore memous (Anderson sampling), annough some may appear as non-sportnaming tongs.

Most of the basidiospores are "mush common spores while the rusts and smuts are plant pathogens.

† The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and

[†] Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and

may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

A "Version" greater than 1 indicates amended data.

[§] Total Spores/m3 has been rounded to two significant figures to reflect analytical precision. TestAmerica Environmental Microbiology Laboratory, Inc.

1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

Client: Biomax Environmental C/O: Mr. Michael Polkabla

Re: 111008-01

Date of Sampling: 11-10-2008 Date of Receipt: 11-11-2008 Date of Report: 11-11-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	I-1435 Floor 22 NW co		J-14354815: Ambient (front entry)				
Comments (see below)	No	ne	No				
Lab ID-Version‡:	21513	314-1	2151315-1				
	raw ct.	spores/m3	raw ct.	spores/m3			
Alternaria			2	27			
Arthrinium							
Ascospores*			54	2,900			
Aureobasidium							
Basidiospores*	1 : :::::::::::::::::::::::::::::::::::		219	12,000			
Bipolaris/Drechslera_group							
Botrytis							
Chaetomium							
Cladosporium	1;;:11;::::1;:::	53	36	1,900			
Curyularia							
Epicoccum							
Fusarium							
Myrothecium							
Nigrospora							
Other colorless							
Penicillium/Aspergillus types†			15:	800			
Pithomyces							
Rusts*			: ::	13			
Smuts*, Periconia, Myxomycetes*							
Stachybotrys							
Stemphylium							
Torula							
Ulocladium							
Zygomycetes							
Background debris (1-4+)++	2+		2+				
Hyphal fragments/m3	< 13		< 13				
Pollen/m3	< 13		< 13				
Skin cells (1-4+)	1+		< 1+				
Sample volume (liters)	75	***	75				
§ TOTAL SPORE/m3		53		17,000			

Comments:

may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The Limit of Detection is the product of a raw count of I and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

1 A "Version" greater than 1 indicates amended data.

^{*} Most of these spore types are not seen with culturable methods (Anderson sampling), although some may appear as non-sporulating fungi.

Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and

^{††}Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst, It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and

[§] Total Spores/m3 has been rounded to two significant figures to reflect analytical precision. TestAmerica Environmental Microbiology Laboratory, Inc.

1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

Date of Sampling: 11-10-2008 Date of Receipt: 11-11-2008 Date of Report: 11-11-2008

Client: Biomax Environmental C/O: Mr. Michael Polkabla

Re: 111008-01

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: J-14354815, Ambient (front entry)

Fungi Identified	Outdoor	Outdoor Typical Outdoor Data by Date†					Typical Outdoor Data by Location;			
	data	Month: November				State: CA				
	spores/m3	low	mcd	high	freq %	low	med	high	freg %	
Generally able to grow indoors*								-		
Alternaria	27	7	27	280	53	7	27	210	58	
Bipolaris/Drechslera group		7	13	1,60	19	7	13	120	13	
Chactomium	.	7	13	210	12	7	13	120	19	
Cladosporium	1,900	40	640	11,000	95	53	630	6,500	98	
Curvularia	[7	20	790	19	7	13	230	7	
Nigrospora	i	7	13	210	19	7	13	160	8	
Penicillium/Aspergillus types	800	27	270	3,100	85	38	210	2,400	87	
Stachybotrys	, <u>4</u> - 13	7	13	350	4	7	1,3	300	5	
Torula	:.: ::::::::::: 	7	13	130	10	7	13	150	12	
Seldom found growing indoors**	:									
Ascospores	2,900	13	120	2,800	75	13	110	1,800	72	
Basidiospores	12,000	13	400	16,000	94	13	210	6,800	94	
Rusts	13	7	13	270	25	7	13	250	28	
Smuts, Periconia, Myxomycetes	: <u>-</u> .:	7	53	730	74	8	40	480	70	
TOTAL SPORES/M3	17,640									

[†] The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

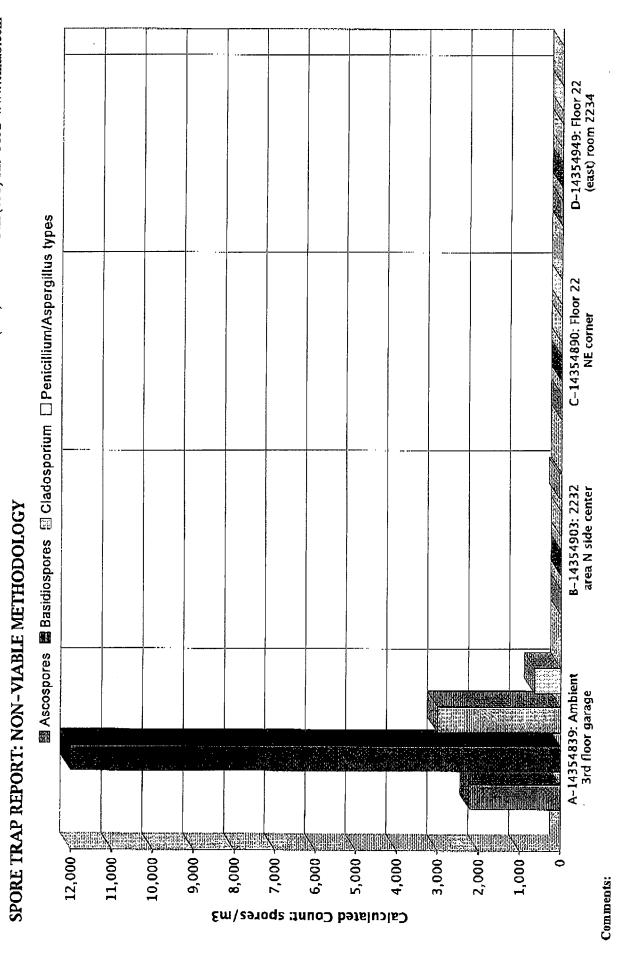
[‡] The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

^{*}The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. Cladosporium is one of the predominant spore types worldwide and is frequently present in high numbers. Penicillium/Aspergillus species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

^{**}These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens.

However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

EMLab P&K 1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com



Note: Graphical output may understate the importance of certain "marker" genera. TestAmerica Environmental Microbiology Laboratory, Inc.

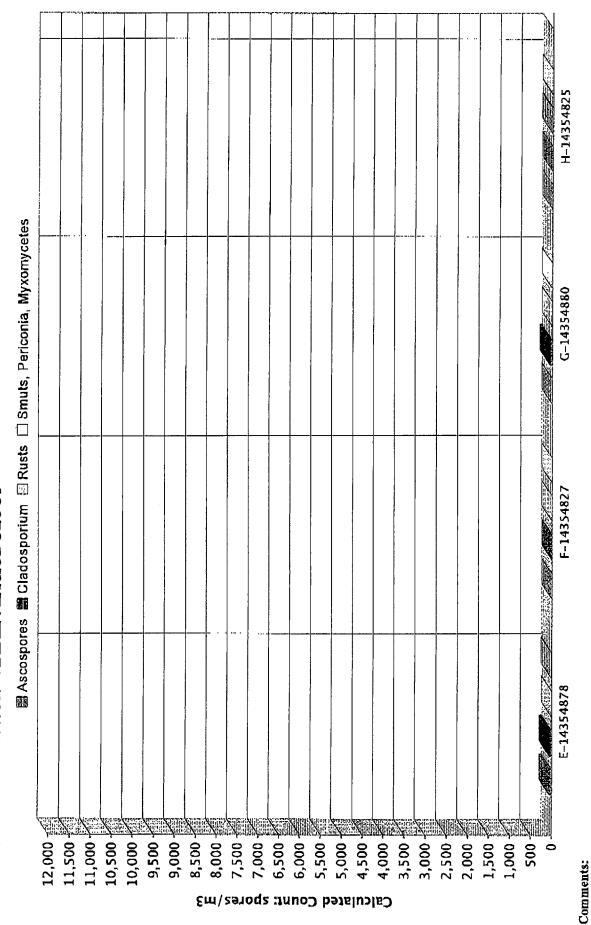
EMLab ID: 487305, Page 1

1150 Bayhill Drive, Suite 100, San Bruno, CA 94066

(650) 829-5800 Fax (650) 829-5852 www.emlab.com

11-11-2008: [11008-0]

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY



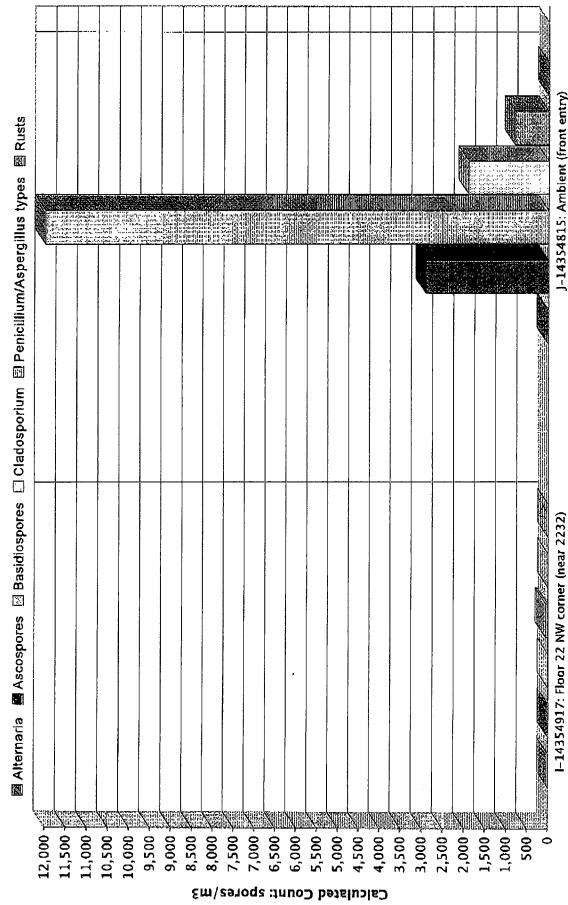
Note: Graphical output may understate the importance of certain "marker" genera. TestAmerica Environmental Microbiology Laboratory, Inc.

EMLab ID: 487305, Page 2

EMLab P&K 1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

11-11-2008: 111008-01



Comments:

Note: Graphical output may understate the importance of certain "marker" genera. TestAmerica Environmental Microbiology Laboratory, Inc.

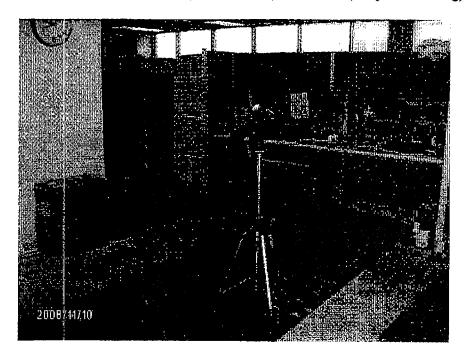
Page 1 of 5

Attachment A: Digital Images
November 10th, 2008
BOE Building 22nd Floor-Wide Post Mitigation Assessment
Sacramento, CA





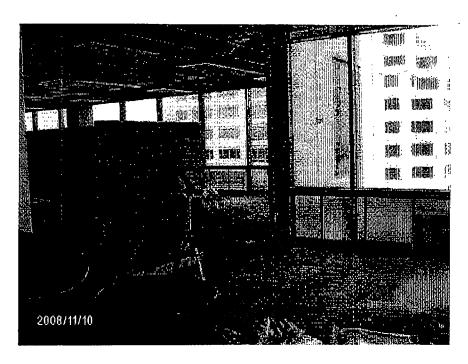
1) Image of ambient air sampling location on West side of 3rd level garage building structure located at 450 N Street, Sacramento, California (Subject Building) at time of assessment.



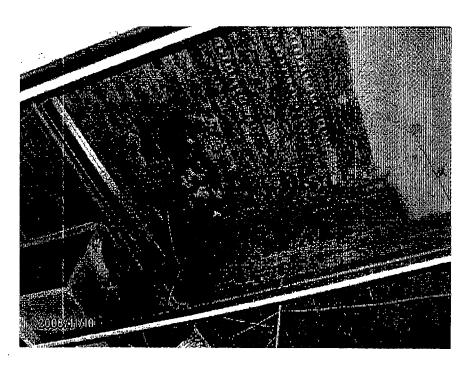
2) Image of air sampling performed within northern side of the 22nd floor (construction office area) at time of clearance inspection and sampling assessment.

November 10th, 2008 BOE Building 22nd Floor Wide Post Mitigation Assessment Sacramento, CA

Page 2 of 5



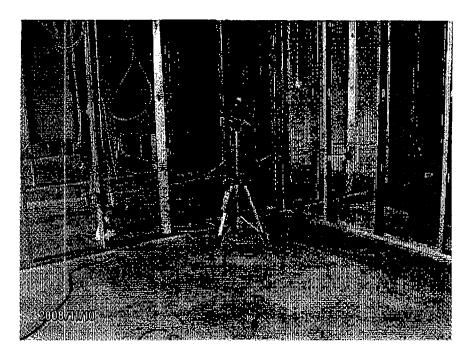
3) Image of air sampling equipment location operated within northeastern "punch out" window corner area of 22nd Floor at time of assessment.



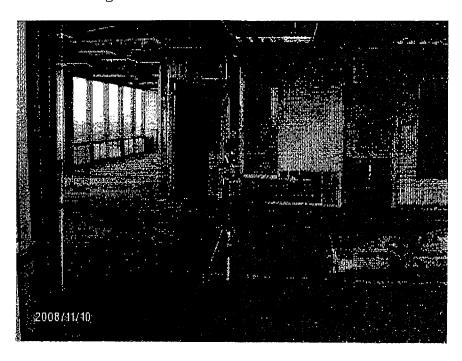
4) Image of representative section where fire proofing material had been removed as part of the noted mitigative activity performed within the 22nd Floor.

November 10th, 2008 BOE Building 22nd Floor Wide Post Mitigation Assessment Sacramento, CA

Page 3 of 5



5) Image of air sampling activity performed within room 2234 at eastern quadrant of the 22nd Floor mitigative area at time of assessment.



6) Image of floor structures and sampling equipment within southeast corner of the 22nd Floor mitigative area at time of assessment.

November 10th, 2008 BOE Building 22nd Floor Wide Post Mitigation Assessment Sacramento, CA

Page 4 of 5



7) Image of sampling equipment location within southern perimeter quadrant of 22nd Floor mitigative area at time of assessment.



8) Image of air sampling performed within northwestern comer area of 22nd Floor mitigative area of subject building at time of assessment.

November 10th, 2008 BOE Building 22nd Floor Wide Post Mitigation Assessment Sacramento, CA

Page 5 of 5



9) Additional image of air sampling performed within northwestern comer area of 22nd Floor mitigative area of subject building at time of assessment.



10) Image of ambient air sampling performed outside main entry at ground level at the conclusion of interior assessment.